

Technical Information—Dual Fuel Slide-In Range

JDS8850BD*

JDS9860BD*

JDS9865BD*

- Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit.
- Refer to Service Manual 16026929 for detailed installation, operating, testing, troubleshooting, and disassembly instructions.



CAUTION

All safety information must be followed as provided in Service Manual 16026929.



WARNING

To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.

Model	JDS8850BD*	JDS9860BD*	JDS9865BD*
Power Source @ 120/240 V (120/208 V) Kw			
Electrical rating	3.6 (2.7)	3.6 (2.7)	3.6 (2.7)
Amperage rating	40 Amp	40 Amp	40 Amp
Frequency	60 Hz	60 Hz	60 Hz
Water Column Pressure			
Natural	5 in. W.C.P.	5 in. W.C.P.	5 in. W.C.P.
LP/Propane	10 in. W.C.P.	10 in. W.C.P.	10 in. W.C.P.
Surface Burner BTU Nat. (LP)			
Right front	16,000 (14,000)	16,000 (14,000)	16,000 (14,000)
Right rear	5,000 (4,000)	5,000 (4,000)	5,000 (4,000)
Left front	15,000 (13,000)	8,500 (8,000)	8,500 (8,000)
Left rear	9,200 (9,100)	8,500 (8,000)	8,500 (8,000)
Elements, Oven Wattage @ 240 V (208 V)**			
Bake, hidden	2,800 (2,100)	N/A	N/A
Bake	N/A	2,400 (1,850)	2,400 (1,850)
Broil, 8-pass	3,600 (2,700)	3,600 (2,700)	3,600 (2,700)
Convection	3,400 (2,500)	3,400 (2,500)	3,400 (2,500)
Warmer drawer	550 (400)	N/A	N/A
Oven Interior Dimensions in. (cm)			
Height	18 1/8 (46)	16 1/2 (41.9)	16 1/2 (41.9)
Width	23 (58.4)	23 (58.4)	23 (58.4)
Depth	18 5/8 (47.3)	17 1/2 (44.4)	17 1/2 (44.4)
Product Exterior Dimensions in. (cm)			
Height Overall	36 (91.4)	36 (91.4)	36 (91.4)
Width	29 7/8 (75.9)	29 7/8 (75.9)	29 7/8 (75.9)
Depth-oven door closed, excl. handle	26 3/16 (66.5)	26 3/16 (66.5)	26 3/16 (66.5)
Depth-oven door closed, incl. handle	28 3/16 (71.6)	28 3/16 (71.6)	28 3/16 (71.6)
Features			
Convection element and fan	Yes	Yes	Yes
Downdraft fan	No	Yes	Yes
Warming drawer	Yes	No	No
E-Burner	No	Yes	Yes
Oven meat probe	Yes	Yes	Yes
Child lockout	Yes	Yes	Yes
Sabbath mode	Yes	Yes	Yes
Door activated oven light	Yes	Yes	Yes
Electronic control and ignition	Yes	Yes	Yes
Weight lbs. (kg)			
Approximate shipping weight	205 (93)	205 (93)	205 (93)

**Rating of 208 VAC is approximately 80% of 240 VAC value.

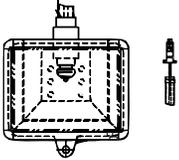
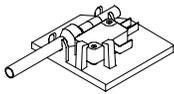
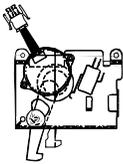
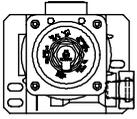
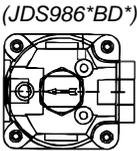
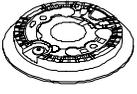
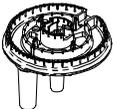
Component Testing Procedures



WARNING

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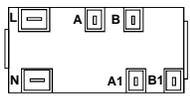
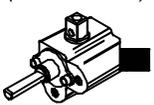
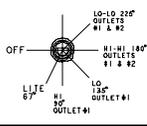
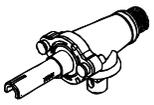
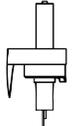
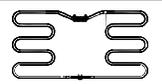
Component Testing Procedures

Illustration	Component	Test Procedure	Results
	Oven light & housing	Disconnect connector and test resistance of terminals Measure voltage at oven light	Verify bulb is properly inserted. Continuity with bulb inserted. 120 VAC, see wiring diagram for terminal identification. If voltage is not present at oven light, check wiring or light switches.
	Door plunger switch	Remove switch from unit and measure the following points: Door closed Door open.....	COM-NO= Continuity (closed) COM-NO= Infinity (open)
	Autolatch assembly	Disconnect wires and test for continuity per wiring diagram Refer to Parts Manual for correct autolatch switch associated with the correct manufacturing number.	See wiring diagram for schematic layout. Common is in neutral position unless locking or unlocking autolatch assembly.
	Door lock switch	Switch connection in the following positions: Door latch locked..... Door latch unlocked.....	COM-NO= Continuity (closed) COM-NO= Infinity (open)
(JDS8850BD*) 	Pressure regulator	Verify gas pressure (W.C.P.) If on LP service verify proper gas supply conversion.	5" Natural 10" LP/propane
(JDS986*BD*) 	Pressure regulator	Verify gas pressure (W.C.P.) If on LP service verify proper gas supply conversion.	5" Natural 10" LP/propane
	Top surface burner 5 K btu 9.2 K btu 16 K btu	Verify gas is supplied Verify burner cap is positioned correctly	Gas supplied. Check for obstructions in burner ports.
(JDS8850BD*) 	Top surface, dual burner 15 K btu Inner: 3 K btu Outer: 12 K btu	Verify gas is supplied Verify burner cap is positioned correctly	Gas supplied. Check for obstructions in burner ports.
	Top surface, burner cap 5 K btu 9.2 K btu 16 K btu	Verify cap is positioned correctly.....	Check for obstructions in burner ports.
(JDS8850BD*) 	Top surface, burner cap, dual (inner and outer burners)	Verify cap is positioned correctly.....	Check for obstructions in burner ports.
	Spark ignition electrode	Test for resistance of spark lead Test ignitor to chassis	Continuity No continuity from ignitor to chassis.

Component Testing Procedures

⚠ WARNING

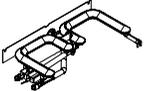
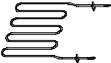
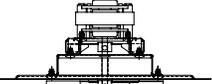
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Illustration	Component	Test Procedure	Results
	Spark module 4 + 0	Test for voltage at terminals L and N..... Check polarity and ground.....	120 VAC See wiring diagram.
	Snap switch (pan switch) NOTE: Downdraft fan will not engage if this switch is not activated.	Test for voltage at terminals Disconnect wiring and check for continuity in LITE position.....	120 VAC Continuity in LITE position.
	Dual burner valve DIAL LAYOUT 	Verify gas is supplied..... Orifices adjusted for Natural or LP.	Gas supplied.
	Burner valve, push-to-turn, 270° 5 K btu 9.2 K btu 16 K btu	Verify gas is supplied..... Orifice adjusted for Natural or LP. Adjust set screw for simmer control.	Gas supplied.
	Burner valve, push-to-turn, 270°, E-burner	Verify gas is supplied..... Orifice adjusted for Natural or LP. Adjust set screw for simmer control.	Gas supplied.
	Orifice holder 5 K btu 9.2 K btu 16 K btu	Verify gas pressure Check orifice for debris.....	5" Natural 10" LP/propane Clean as needed.
	Orifice holder, dual burner 12 K btu 3 K btu	Verify gas pressure Check orifice for debris.....	5" Natural 10" LP/propane Clean as needed.
	Spark switch	Test for voltage at terminals Disconnect wiring and check for continuity in LITE position.....	120 VAC Continuity in LITE position.
	Spark switch	Test for voltage at terminals Disconnect wiring and check for continuity in LITE position.....	120 VAC Continuity in LITE position.
	Double valve switch	Test for voltage at terminals Disconnect wiring and check for continuity in LITE position.....	120 VAC Continuity in LITE position.
	Temperature sensor	Measure resistance	Approx 1000 Ω at room temperature, 75° F (23.8° C).
	Convection element	Disconnect wiring to element and measure cold resistance of terminals. ... Measure voltage at convect element	Approx. 16.5 Ω. 240 VAC.

Component Testing Procedures

⚠ WARNING

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Illustration	Component	Test Procedure	Results
(JDS986*BD*) 	E-burner assembly	Verify gas is supplied	Gas supplied, Check for obstructions in burner ports.
(JDS986*BD*) 	E-burner ignitor	Test for resistance of spark lead	Continuity.
(JDS986*BD*) 	E-burner tube, front	Nominal air shutter setting250 1/4"
(JDS986*BD*) 	E-burner tube, rear	Nominal air shutter setting250 1/4"
(JDS8850BD*) 	Hidden bake element	Disconnect wiring to element and measure cold resistance of terminals.....	Approx. 20 Ω.
(JDS8850BD*) 	Broil element	Disconnect wiring to element and measure cold resistance of terminals.....	Approx. 12.5 to 18 Ω.
(JDS986*BD*) 	Bake element	Disconnect wiring to element and measure cold resistance of terminals.....	Approx. 22 Ω.
(JDS8850BD*) 	Warmer element	Disconnect wiring to element and measure cold resistance of terminals.....	Approx. 12.5 to 18 Ω.
(JDS8850BD*) 	Convection motor, 2-speed	Measure voltage	120 VAC. (tolerance: 105 to 135 VAC)
(JDS986*BD*) 	Oven limit switch	Check motor windings to ground	No continuity.
(JDS986*BD*) 	Oven limit switch	Normally closed, verify operation: Open: 253° to 267° F (123° to 131° C).....	Infinite.
(JDS986*BD*) 	Oven limit switch	Closed: 188° to 212° F (87° to 100° C)....	Continuity.
(JDS8850BD*) 	Oven limit switch	Normally closed, verify operation: Open: 209° to 221° F (98° to 105° C).....	Infinite.
(JDS8850BD*) 	Oven limit switch	Closed: 144° to 166° F (62° to 74° C).....	Continuity.
(JDS8850BD*) 	Hi-limit temperature switch (Warming Drawer)	Normally closed, verify operation: Open: 135° to 145° F (57° to 63° C).....	Infinite.
(JDS8850BD*) 	Hi-limit temperature switch (Warming Drawer)	Closed: 114° to 126° F (46° to 52° C).....	Continuity.
(JDS8850BD*) 	Hi-limit temperature switch (Warming Drawer)	Normally closed, verify operation: Open: 95° to 105° F (35° to 41° C).....	Infinite.
(JDS8850BD*) 	Hi-limit temperature switch (Warming Drawer)	Closed: 79° to 91° F (26° to 33° C).....	Continuity.

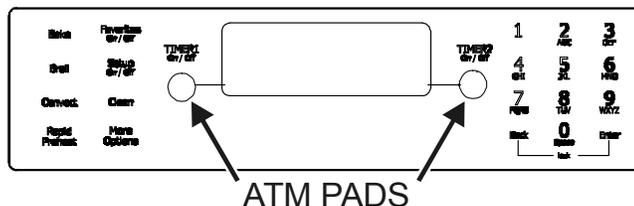
Control Testing Procedures



WARNING

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Electronic Oven Control (EOC) III Testing Procedures



ELECTRONIC OVEN CONTROL III TESTING/PROGRAMMING PROCEDURES		
Feature	Access Procedure	Modification Procedure
Oven Temperature Adjustment Determines oven cavity offset temperature (range from -35° F to +35° F, or -21° C to +21° C).	Press the Setup pad, then press the right ATM pad until TEMP ADJUST displays. Press the left ATM pad to select oven TEMP ADJUSTMENT settings.	Enter the offset temperature setting desired using the digits pads. Press the right ATM pad for + temperature adjustment, or the left ATM pad for – temperature adjustment. Press 0 to reset control back to no temperature adjustment. Wait 3 seconds for the control to accept the request. Press Setup to exit.
Time Options Determines control time, day of week, 12/24 hour clock.	Press the Setup pad, then the left ATM pad to select TIME OPTIONS.	Press the right ATM pad to scroll to the desired function to modify.
Time Set Determines time of day (Monday through Sunday) to display on control.	Press the Setup pad, then the left ATM pad, then the left ATM pad again to set the time of day clock.	Enter the correct time using the digits pads and press Enter . Press the left ATM pad to select AM or the right ATM pad to select PM. Press Setup to exit.
Day of Week Determines day of week (Monday thru Sunday) to display on control	Press the Setup pad, then the left ATM pad, then press the right ATM pad until DAY displays. Press the left ATM pad to set the day of the week.	Press the right ATM pad until the correct day displays, then press the left ATM pad to select. Press Setup to exit.
12/24-Hour Clock Display Determines 12-hour or 24-hour clock display on control.	Press the Setup pad, then the left ATM pad, then press the right ATM pad until 12/24HR displays. Press the left ATM pad to select 12/24 HR clock.	Press the left ATM pad to select 12-hour clock, or the right ATM pad to select 24-hour clock. Press Setup to exit.
Clock & Day Display Disable Determines if time of day and day of week will display on control.	Press the Setup pad, then press the right ATM pad until DISABLE displays. Press the left ATM pad to select DISABLE settings.	Press the left ATM pad to select TIME, or the right ATM pad to scroll to DAY, then press the left ATM pad. Press the left ATM pad to turn display on or the right ATM pad to turn display off. Press Setup to exit.
Language Display Determines language display on control (English, French, Spanish).	Press the Setup pad, then press the right ATM pad until LANGUAGE displays. Press the left ATM pad to set LANGUAGE settings.	Press the right ATM pad until the desired language displays (English, French, Spanish). Press the left ATM pad. Press Setup to exit.
C/F (Celsius/Fahrenheit) Display Determines temperature display on control (C or F).	Press the Setup pad, then press the right ATM pad until C/F displays. Press the left ATM pad to select C/F settings.	Press the left ATM pad to select Celsius or the right ATM pad to select Fahrenheit. Press Setup to exit.
Auto Convection When enabled, reduces the Convection Bake and Pastry temperatures by 25° F (-3.9° C).	Press the Setup pad, then press the right ATM pad until AUTO CONVECT displays. Press the left ATM pad to select AUTO CONVECT settings.	Press the left ATM pad to turn on auto convection, or the right ATM pad to turn off auto convection. Press Setup to exit.
Sabbath Mode Bases on the Jewish guidelines for Sabbath/Holiday requirements.	Press the Setup pad, then press the right ATM pad until SABBATH displays. Press the left ATM pad to select SABBATH settings.	Press the left ATM pad to select Manual Sabbath mode, or the right ATM pad to select Auto Sabbath mode. Press the left ATM pad to turn on Sabbath mode, or the right ATM pad to turn off Sabbath mode. Press Setup to exit.
Tone Options Determines cook tones, timer tones and volume settings.	Press the Setup pad, then press the right ATM pad until TONES displays. Press the left ATM pad to select TONES options.	Press the right ATM pad to scroll to the desired tone to modify.
12-Hour Shutoff Disables 12-hour shutoff, allowing the oven to operate indefinitely.	Press the Setup pad, then press the right ATM pad until 12HR Shutoff displays. Press the left ATM pad to select 12-HOUR SHUTOFF settings.	Press the left ATM pad to turn on 12-hour shutoff, or the right ATM pad to turn off 12-hour shutoff. Press Setup to exit.

Component & Oven Control Testing Procedures



WARNING

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Feature	Access Procedure	Modification Procedure
208/240 V Setting Determines range operating voltage (208 or 240 VDC).	Press the Setup pad, then press the right ATM pad until 208/240 displays. Press the left ATM pad to select 208/240 V settings.	Press the left ATM pad to select 208 VDC, or the right ATM pad to select 240 VDC. Press Setup to exit.
Cook Tones Determines the number and duration of cook time reminder chimes.	Press the Setup pad, then press the right ATM pad until TONES displays. Press the left ATM pad. Press the left ATM pad again to select COOK TONES settings.	Press the left ATM pad to select 1 – 30 (1 chime every 30 seconds after the initial 4 chimes), or press the right ATM pad to scroll to 1 – 60 (1 chime every 60 seconds after the initial 4 chimes) or 1 BEEP (no additional chimes after the initial 4 chimes). Press the left ATM pad to select the desired setting. Press Setup to exit.
Timers Tones Determines the number and duration of timer reminder chimes.	Press the Setup pad, then press the right ATM pad until TONES displays. Press the left ATM pad. Press the right ATM pad to scroll to TIMERS TONES. Press the left ATM pad to select TIMERS TONES settings.	Press the left ATM pad to select 2 – 30, or 2 chimes every 30 seconds for up to 5 minutes (after the initial chime), or press the right ATM pad to scroll to 2 – 60, or 2 chimes every 60 seconds for up to 30 minutes (after the initial chime), or 1 BEEP (no additional chimes after the initial chime). Press the left ATM pad to select the desired setting. Press Setup to exit.
Volume Determines volumes of cook and timer tones.	Press the Setup pad, then press the right ATM pad until TONES displays. Press the left ATM pad to select VOLUME settings.	Press the right ATM pad until VOLUME displays. Press the left ATM pad. Press the left ATM pad to select HIGH, or the right ATM pad to scroll to MEDIUM or LOW. Press the left ATM pad to select desired setting. Press Setup to exit.
Energy Saver Mode Enables a 1 watt standby feature. If no pad is pressed within 5 minutes, the control enters into a sleep mode.	Press the Setup pad, then press the right ATM pad until ENERGY SAVER displays. Press the left ATM pad to select ENERGY SAVER mode settings.	Press the left ATM pad to enter the energy saver mode or the right ATM pad to exit the energy saver mode. Press Setup to exit.
Demo Mode Enables a 1 watt standby feature. If no pad is pressed within 5 minutes, the control enters into a sleep mode.	Press the Setup pad, then press the right ATM pad until DEMO displays. Press the left ATM pad to select DEMO mode settings.	Press the left ATM pad to enable the DEMO mode or the right ATM pad to exit the DEMO mode. Once the DEMO mode begins, press any key to exit. Press Setup to exit, also.
Service Mode Enables access to service menus.	Press the Setup pad, then press the right ATM pad until SERVICE displays. Press the left ATM pad to select SERVICE menu options.	Press and hold the Back and Enter pads for 5 seconds to enter SERVICE menu options. Press Setup to exit.
Test Access Enables access to service menus.	Press the Setup pad, then press the right ATM pad until SERVICE displays. Press the left ATM pad to select SERVICE menu options.	Press and hold the Back and Enter pads for 5 seconds to enter SERVICE menu options. Press the right ATM pad to scroll to TEST menu. Press the left ATM pad to select TEST options. Press Setup to exit.
Faults Access Displays the 10 most recent faults produced by the controller.	Press the Setup pad, then press the right ATM pad until SERVICE displays. Press the left ATM pad to select SERVICE menu options.	Press and hold the Back and Enter pads for 5 seconds to enter SERVICE menu options. Press the right ATM pad to scroll to the FAULTS menu. Press the left ATM pad to select FAULTS options. Press Setup to exit.
Software Versions Access Displays the software and EEPROM revision levels.	Press the Setup pad, then press the right ATM pad until SERVICE displays. Press the left ATM pad to select SERVICE menu options.	Press and hold the Back and Enter pads for 5 seconds to enter SERVICE menu options. Press the right ATM pad to scroll to the VERSIONS menu. Press the left ATM pad to view. Press Setup to exit.
Display Test Illuminates all lamps on the control.	Press the Setup pad, then press the right ATM pad until SERVICE displays. Press the left ATM pad to select SERVICE menu options.	Press and hold the Back and Enter pads for 5 seconds to enter SERVICE menu options. Press the right ATM pad to scroll to DISPLAY TEST. Press the left ATM pad. Press Setup to exit.
Control Lockout Disables the touch keypad control and locks the oven cavity door.	Press the Back and Setup pads simultaneously for 5 seconds to lock.	Press the Back and Setup pads simultaneously for 5 seconds to unlock.

Control Testing Procedures



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Relay Logic for EOC III

NOTE: Subsequent changes implemented after the release of this technical sheet may have altered the parameters identified in this chart.

INDEX						
X - OFF O - ON ■ - CYCLING ◆ - ON OR OFF (DETERMINED BY USER INPUT)						
	BAKE ELEMENT	BROIL ELEMENT	CONVECT ELEMENT	CONVECT FAN	WARMING DRAWER	OVEN LIGHT
COOKING MODE						
IDLE	X	X	X	X	X	◆
BAKE RAPID PREHEAT	O	X	X	X	X	◆
BAKE PREHEAT	O	X	X	X	X	◆
BAKE	■	X	X	X	X	◆
HIGH BROIL PREHEAT	X	O	X	X	X	◆
HIGH BROIL	X	■	X	X	X	◆
LOW BROIL PREHEAT	X	O	X	X	X	◆
LOW BROIL	X	■	X	X	X	◆
CLEAN PREHEAT	■	■	■	X	X	X
CLEAN	■	■	■	X	X	X
KEEP WARM PREHEAT	O	X	X	X	X	◆
KEEP WARM	■	X	X	X	X	◆
WARMING DRAWER HIGH	X	X	X	X	O	◆
WARMING DRAWER LOW	X	X	X	X	O	◆
CONVECT ROAST PREHEAT	X	X	O	X	X	◆
CONVECT ROAST	X	X	■	O*	X	◆
CONVECT BAKE RAPID PREHEAT	X	X	O	X	X	◆
CONVECT BAKE PREHEAT	X	X	O	X	X	◆
CONVECT BAKE	X	X	■	X	X	◆
CONVECT PASTRY RAPID PREHEAT	X	X	O	O*	X	◆
CONVECT PASTRY PREHEAT	X	X	O	O*	X	◆
CONVECT PASTRY	X	X	■	O*	X	◆
THAW-SERVE	■	■	X	X	X	◆
DRYING PREHEAT	X	X	O	X	X	◆
DRYING	X	X	■	X	X	◆
RAPID PROOFING	X	X	O	O	X	◆
STANDARD PROOFING	X	X	O	X	X	◆

*Convection fan stops when oven door is opened.

Control Testing Procedures

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"Quick Test" Mode for EOC III

Follow the procedure below to perform the EOC III quick test. Once the control is in the quick test mode, any relay may be activated in any sequence. The test mode will be exited after 10 minutes of inactivity (no pads pressed within 10 minutes).

1. Press the **Setup** pad, then press the right **ATM** pad.
2. Press the left **ATM** pad, then press and hold **Back** and **Enter** pads for 5 seconds to enter SERVICE menu options.
3. Press the right **ATM** pad to scroll to the TEST menu.
4. Press the left **ATM** pad to select TEST options.
5. Press the left **ATM** pad again to enter the "Quick Test" mode.
6. Press each of the following pads indicated in the table below.
7. Press **Cancel** or **Setup** pads to exit.

NOTE: Press and hold the applicable pad to activate the associated response.
Release the applicable pad to deactivate the associated response.

The control automatically enters the engineering mode so visual feedback of relay operations is available on the control display. Any time a load is activated, the cooling fan is activated. When the load is deactivated, the cooling fan is also deactivated.

Display will indicate the following:

Pad	Response
BAKE	Bake relay activated.
BROIL	Broil relay activated.
CONVECT.....	Convection Bake and Cooling Fan relays activated.
OVEN LIGHT	Oven light relay activated.
RAPID PREHEAT	Convection Fan (HIGH/LOW) activated.
WARMING ZONE	Warming Zone relay activated.
VENT (DOWNDRAFT) FAN	Vent Fan relay activated.
CLEAN	Motorized Door Lock relay activated.
SETUP	1 Second Beep.
FAN.....	Downdraft Fan (HIGH/LOW) relay activated.
WARMING DRAWER.....	Warming Drawer (HIGH/LOW) relay activated.

OVEN SENSOR	
Sensor Type: RTD 1000w platinum	
Calibration: 1654Ω (350° F/177° C)	
Temperature F (C)	Resistance (Ohms)
100 (38)	1143
200 (94)	1350
300 (149)	1553
350 (177)	1654
400 (204)	1753
500 (260)	1949
600 (316)	2142
700 (371)	2331
800 (427)	2516
900 (483)	2697
1000 (538)	2874

MEAT PROBE	
Type: NTC Thermistor	
Calibration: 9938Ω (150° F/65.5° C)	
Temperature F (C)	Resistance (Ohms)
32 (0)	163300
68 (20)	62450
95 (35)	32660
122 (50)	18020
158 (70)	8760
185 (85)	5360
212 (100)	3400

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Description of Fault Codes for EOC III

Each fault code consists of 4 digits and is structured as follows:

1 st (Leftmost) Digit: Primary Failure System	2 nd Digit: Alpha-Character	3 rd Digit: Secondary Failure Mechanism	4 th Digit : Oven Cavity Number
1 – Local to Control System	d – Diagnostic Failure (measurable)		1 – Upper (Single) Oven
3 – Sensor or Meat Probe	c – Control-Related Error (not measurable)		2 – Lower Oven
4 – Input to Control System			c – Control System
9 – Door Lock			

If a fault is detected, then one of the following three messages will be scrolled on the display:

FAULT DETECTED PRESS ENTER TO TRY AGAIN. This message displays when a fault is detected while a cooking function is active. Clear by pressing the **Cancel** keypad.

FEATURE NOT AVAILABLE. This message displays when a fault is detected while entering data during initial programming and also when a locked out function is detected. Clear by pressing any key.

FAULT DETECTED DISABLE POWER TO CLEAR. This message displays when a runaway temperature condition is detected while the control is in idle mode. Press any key to clear the message, but the fault remains until the control senses a Power-On reset.

Fault Code	Description	Component to Troubleshoot/Replace
1c1c	Shorted key.	Ensure ribbon cable is securely connected, inspect ribbon cable and connector (shorts, breakage, corrosion, etc.). If OK, replace control.
1c2c	Membrane keyboard disconnected.	Ensure ribbon cable is securely connected, inspect ribbon cable and connector (shorts, breakage, corrosion, etc.). If OK, replace control.
1c4c	Board – to – Board communication failure.	Replace control.
1c6c	EEPROM hardware fault.	Replace control.
1c7c	Control not calibrated.	Replace control.
1c8c	EEPROM CRC error – User Options.	Replace control.
1c81	EEPROM CRC error – Cook Profile.	Replace control.
1d11	Unlocked runaway temperature – 600°	Ohm sensor and harness (see "Oven Sensor" chart). If OK, change control.
1d21	Locked runaway temperature – 950°	Ohm sensor and harness (see "Oven Sensor" chart). If OK, change control.
3d11	Temperature sensor open.	Check connections, sensor (see "Oven Sensor" chart) and harness. If OK, replace control.
3d21	Temperature sensor shorted.	Check connections, sensor (see "Oven Sensor" chart) and harness. If OK, replace control.
3d41	Meat probe shorted.	Check probe jack and harness. If OK, check meat probe (see "Meat Probe" chart).
3d51	Meat probe not calibrated.	Check probe jack and harness. If OK, check meat probe (see "Meat Probe" chart).
4d11	Door switch not closed when locked.	Check connections, switch, harness, and motor. If OK, replace control.
4d21	No cooling fan rotation.	Check cooling fan motor and harness. If OK, replace control.
4d31	Cooling fan on when de-energized.	Check cooling fan motor and harness. If OK, replace control.
4d41	Cooling fan overspeed.	Check cooling fan motor and harness. If OK, replace control.
4d51	Door switch circuit fault.	Check connections, harness, and motor. If OK, replace control.
9d11	Latch will not lock.	Check wire connections. If OK, replace motorized door lock.
9d21	Latch will not unlock.	Check wire connections. If OK, replace motorized door lock.
9d31	Latch both locked and unlocked.	Check wire connections. If OK, replace motorized door lock.

Control Testing Procedures

⚠ WARNING

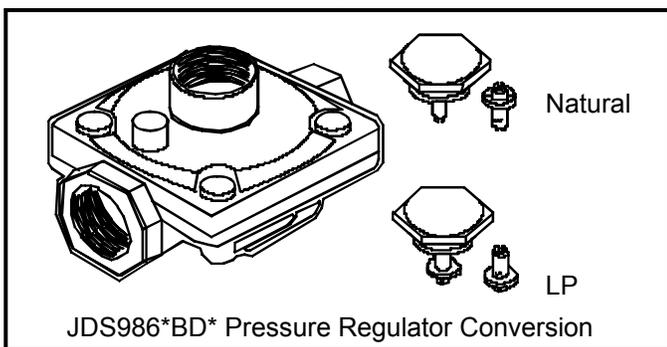
To avoid risk of electrical shock, personal injury or death; disconnect power and gas to range before servicing, unless testing requires power and/or gas.

Gas Conversion: JDS986*BD*

Pressure Regulator Conversion

1. Remove cap and force plastic plunger from bottom of cap.
2. Turn plunger over and force back into original location.

NOTE: Plunger must snap into position and the type of gas being supplied (NAT or LP) must be visible on lower side of plunger.

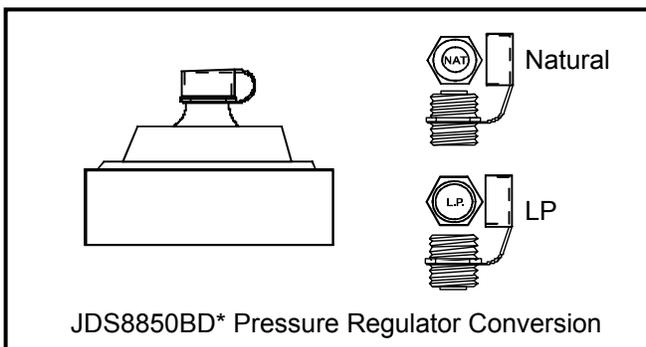


Gas Conversion: JDS8850BD*

Pressure Regulator Conversion

1. Remove plastic dust cover from cap nut (top of regulator) and remove cap nut.
2. Remove plastic dust cover from cap nut and reinstall on opposite side of cap nut.
3. Reinstall cap nut into regulator, replace dust cover.

NOTE: The marking for the type of gas being supplied (NAT or LP) must be visible in top of cap nut.



Orifice Conversion:

1. Remove grates, burner caps, screws and burner heads (and grill, on models JDS986*BD*).
2. Converting one burner at a time, remove existing orifice hoods and install new orifice hood (see chart below), screw down tight. **Do not over tighten.**
3. Replace grates, burner caps, screws and burner heads (and grill, on models JDS986*BD*).

Low Flame Adjustment:

1. Adjusting one burner at a time, turn burner control knob to lowest position and remove knob.
2. Insert screwdriver into knob stem to engage adjustment screw and adjust flame height (no blue lifting or yellow flame).
3. Replace burner control knob.

	Natural	LP
RF	1.95 mm	Red (1.14 mm)
RR	Green (1.07 mm)	Blue (.69 mm)
GRILL	Green (1.07 mm)	.033 mm

Orifice Conversion:

1. Remove burner grates, caps, screws and heads.
2. Converting one burner at a time, remove existing orifice hoods and install new orifice hood (see chart below), screw down tight. **Do not over tighten.**
3. Replace burner grates, caps, screws and heads.

Low Flame Adjustment:

1. Adjusting one burner at a time, turn burner control knob to lowest position and remove knob.
2. Insert screwdriver into knob stem to engage adjustment screw and adjust flame height (no blue lifting or yellow flame).
3. Replace burner control knob.

NOTE: Drop in **LP CHOKE** after replacing burner heads and screws, but before replacing caps and grates.

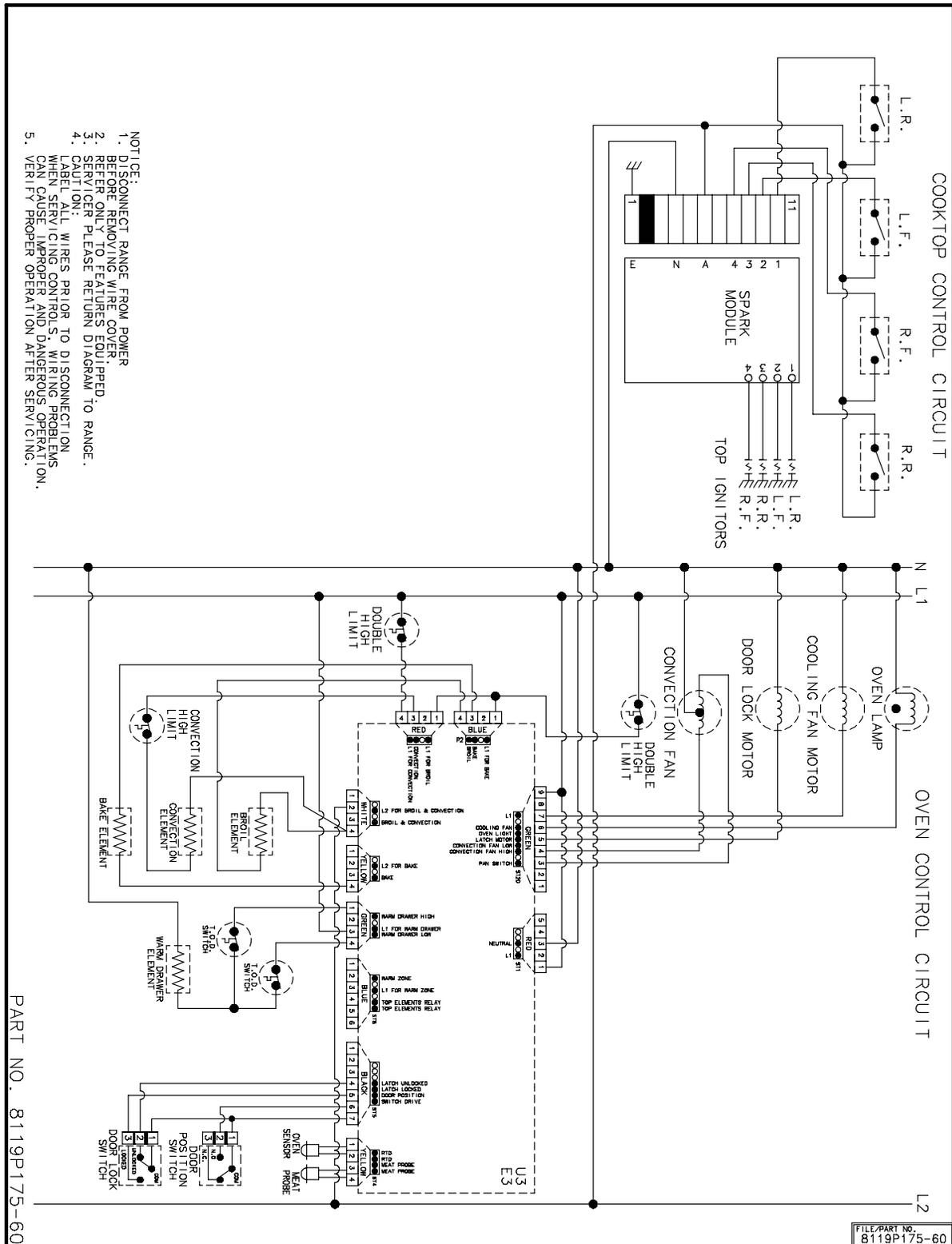
	Natural	LP
RF	1.95 mm	Red (1.14 mm)
RR	Green (1.07 mm)	Blue (.64 mm)
LR	1.42 mm	.91 mm
LF Inner	.78 mm	White (.55 mm)
LF Outer	1.86 mm	Orange (.97 mm) and Choke

Wiring Diagram and Schematic



WARNING

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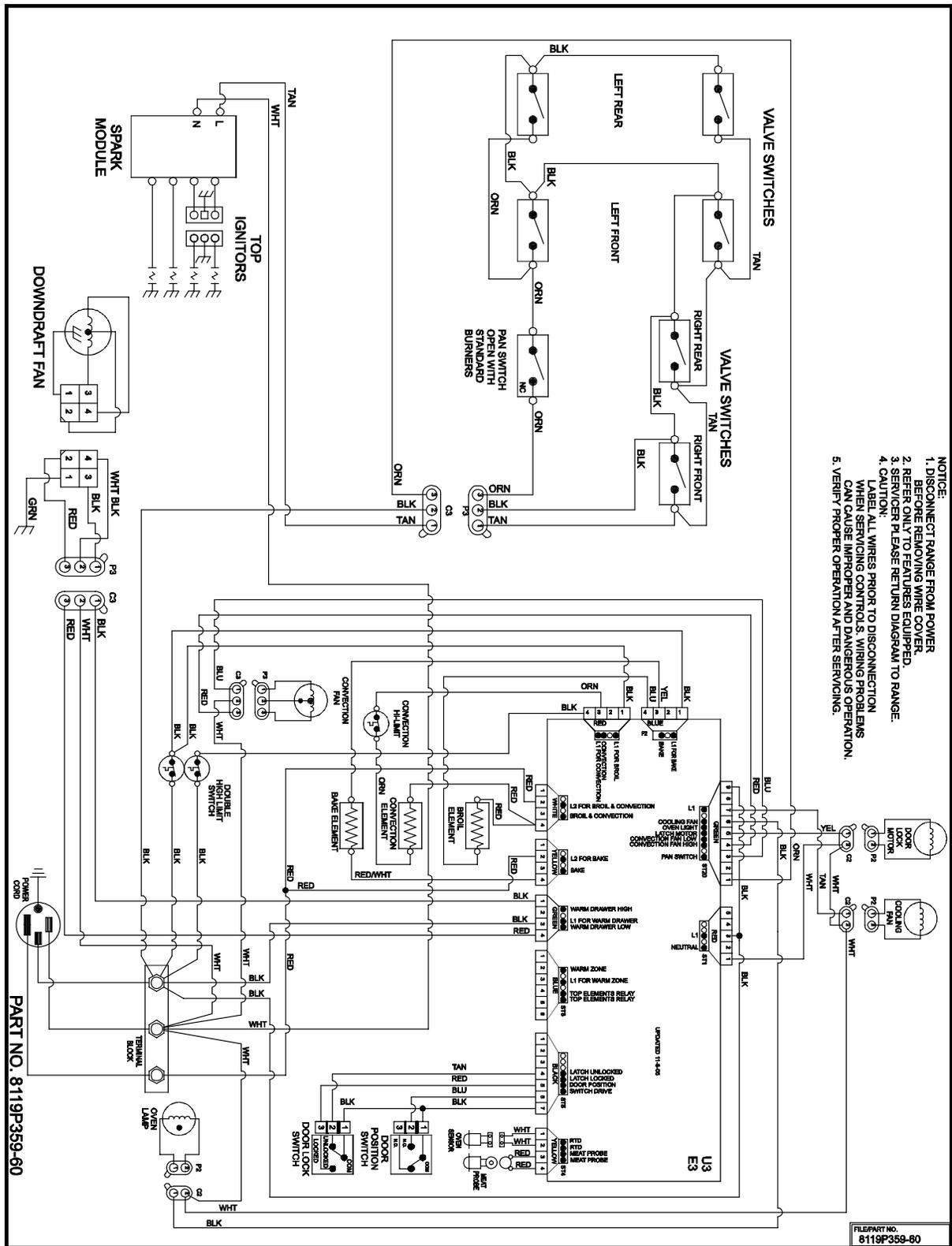
JDS8850BD* Control Circuits

Wiring Diagram and Schematic



WARNING

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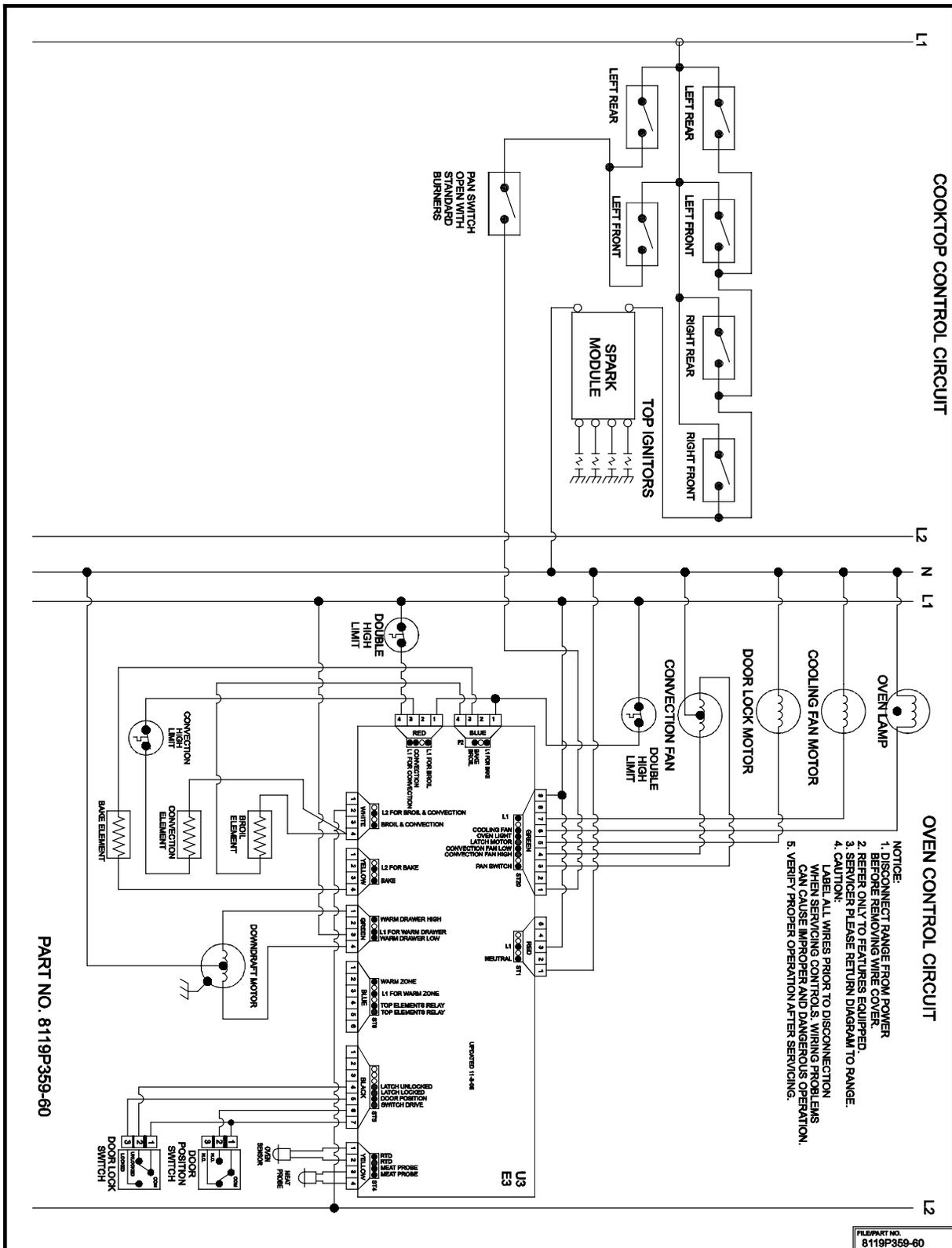
JDS9860BD*, JDS9865BD* Wiring Diagram

Wiring Diagram and Schematic



WARNING

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JDS9860BD*, JDS9865BD* Control Circuits